

PERMIT APPLICATION: NRS 04.024

APPLICANT: Tennessee Wildlife Resources Agency
200 Lowell Thomas Drive
Jackson, Tennessee 38301
731-423-5725

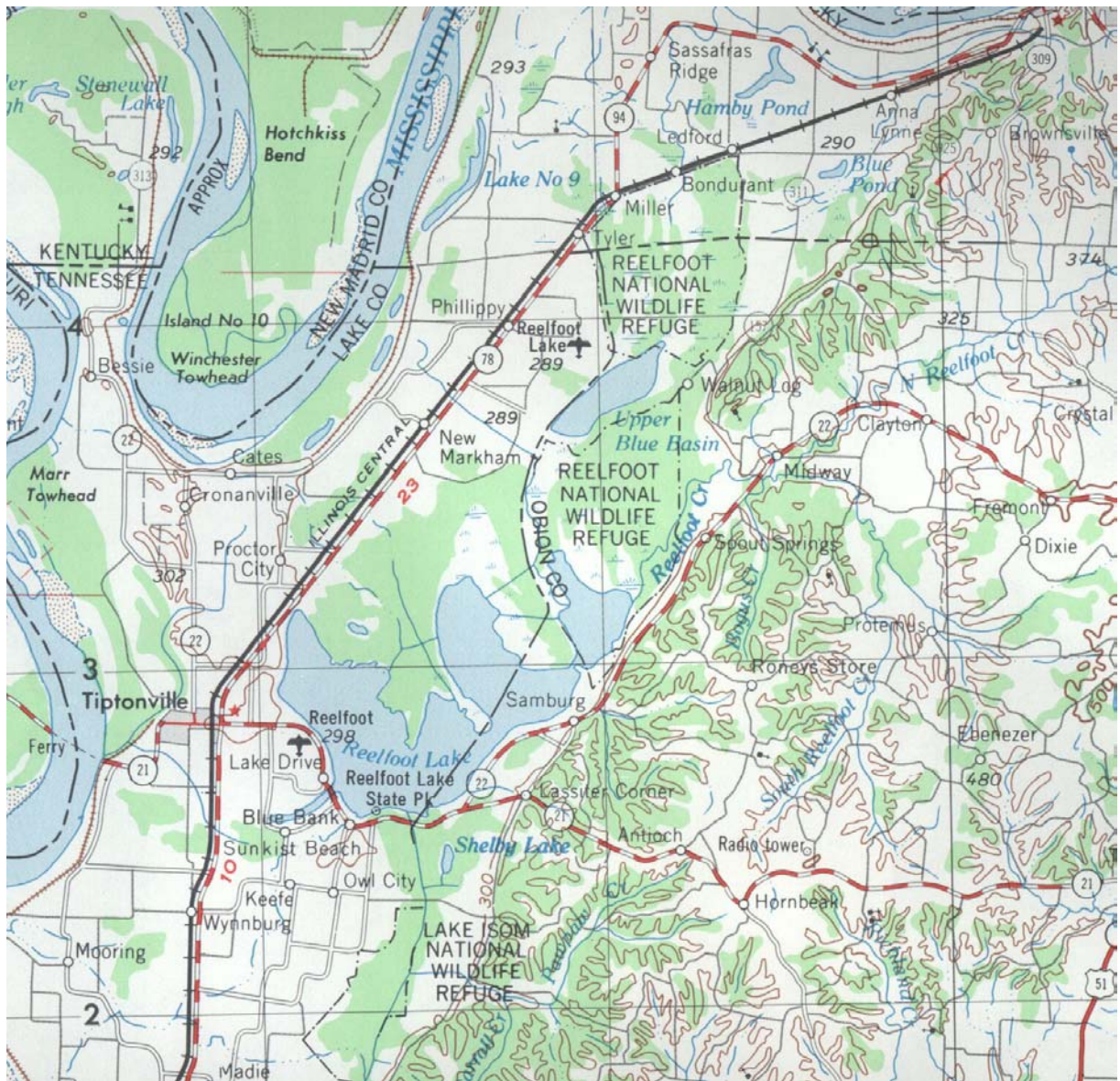
LOCATION: Reelfoot Lake in Lake and Obion Counties

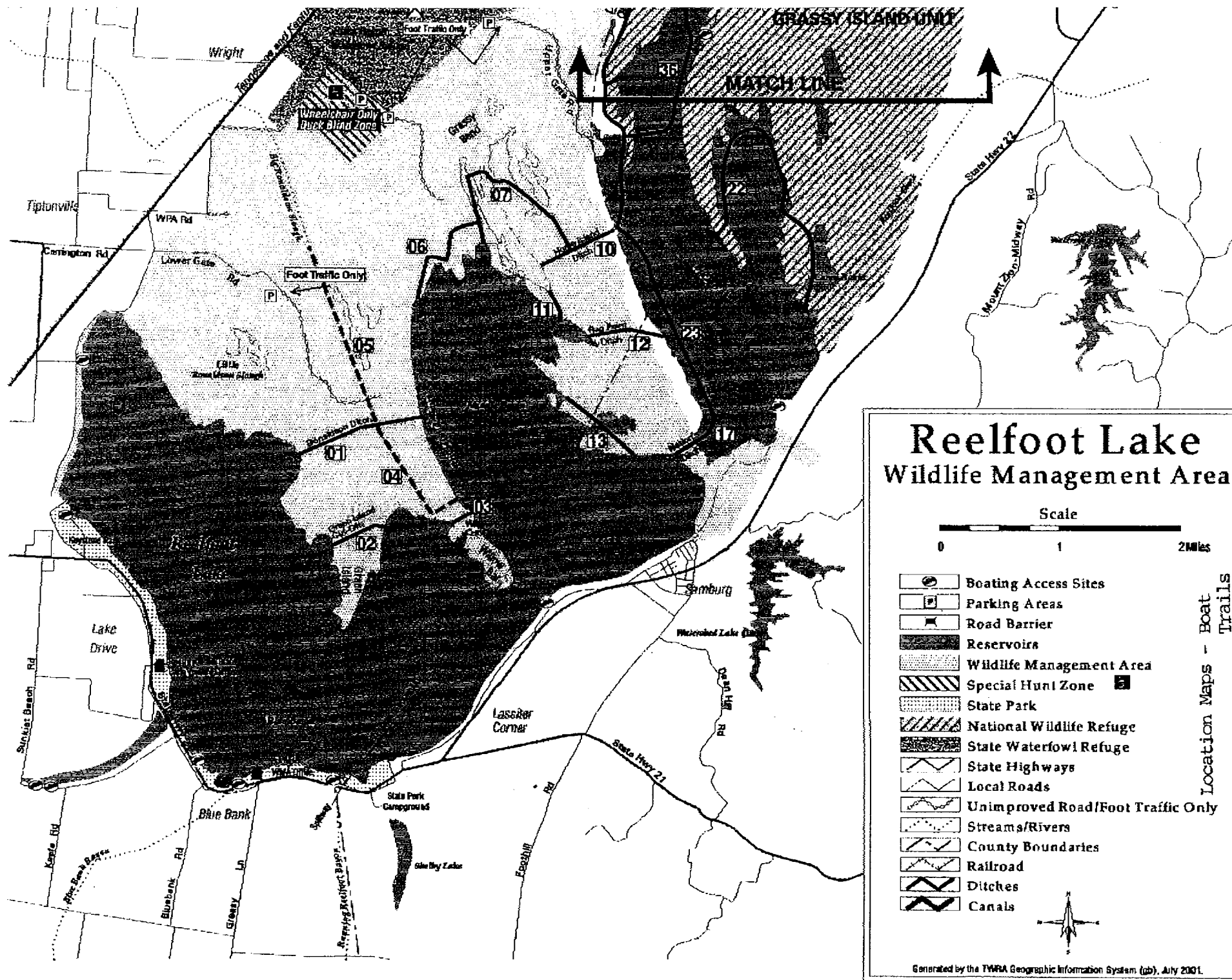
WATERSHED DESCRIPTION: Reelfoot Lake is a natural, depressional wetland that encompasses approximately 25,000 acres of shallow open water and vegetated wetland habitat. Adjacent land use is primarily rural agricultural. Reelfoot Lake is designated as an Outstanding National Resource Water which receives the highest level of protection under regulation. It is also designated as a Class I - Scenic-Recreational Area and a Wildlife Management Area administered by the Tennessee Wildlife Resources Agency.

PROJECT DESCRIPTION: The proposed work involves the maintenance dredging of boating channels in Reelfoot Lake. Approximately 45.5 miles of work is proposed. The typical channel dimension would be approximately 10 feet wide by 3 to 6 feet deep. In another section of channel for about 1.1 miles the width would be about 30 feet and depth of 6 feet. About 2.4 miles of channel would be 20 feet wide. Dredging would be done using an amphibious track-hoe to remove woody debris and a hydraulic dredge to excavate sediment. The slurry would be sprayed out over the surrounding area away from the channel. This project also requires a permit pursuant to T.C.A. §69-1-1, for construction of a structure or to engage in an activity on or in Reelfoot Lake that may have the effect of impairing or obstructing navigability. The Division has tentatively determined to issue the navigation permit.

PERMIT COORDINATOR: Robby Baker

USGS TOPOGRAPHIC QUADRANGLES: 419 NW, TIPTONVILLE; 419 NE
SAMBURG; 419 SW, RIDGELY; 419 SE, HORNBEAK.





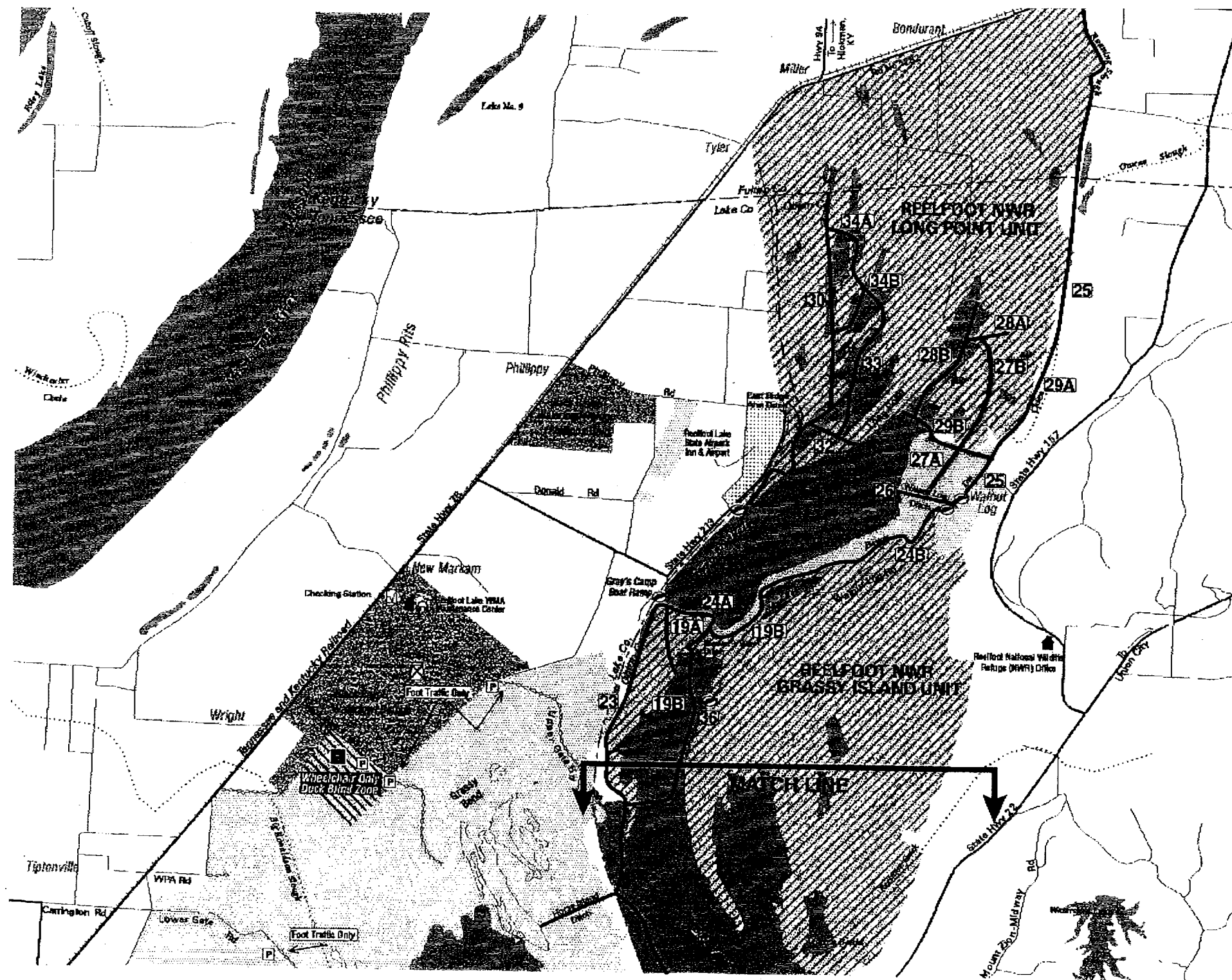
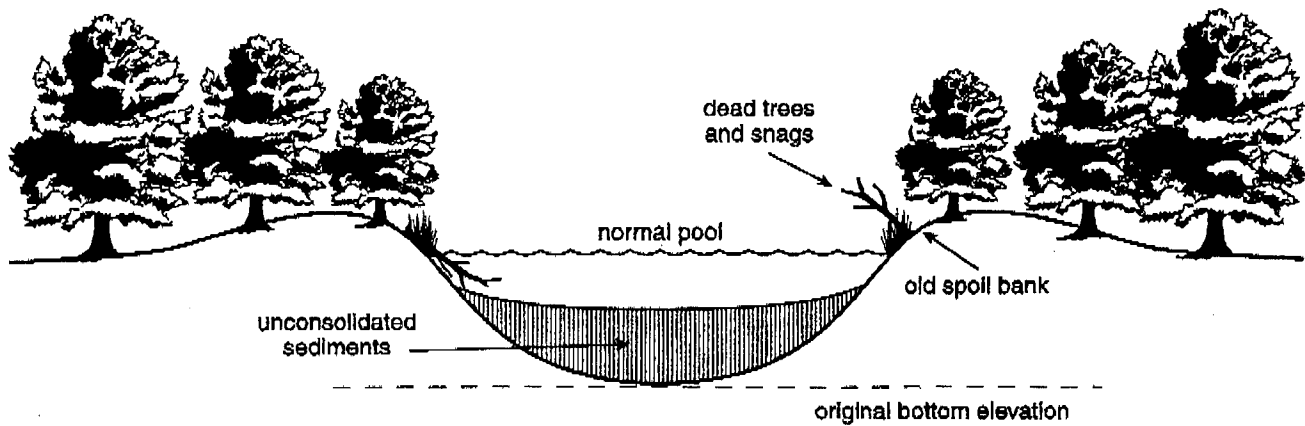


Figure 1. Typical Cross-section of Set Spray Work and Disposal Area

BEFORE



AFTER

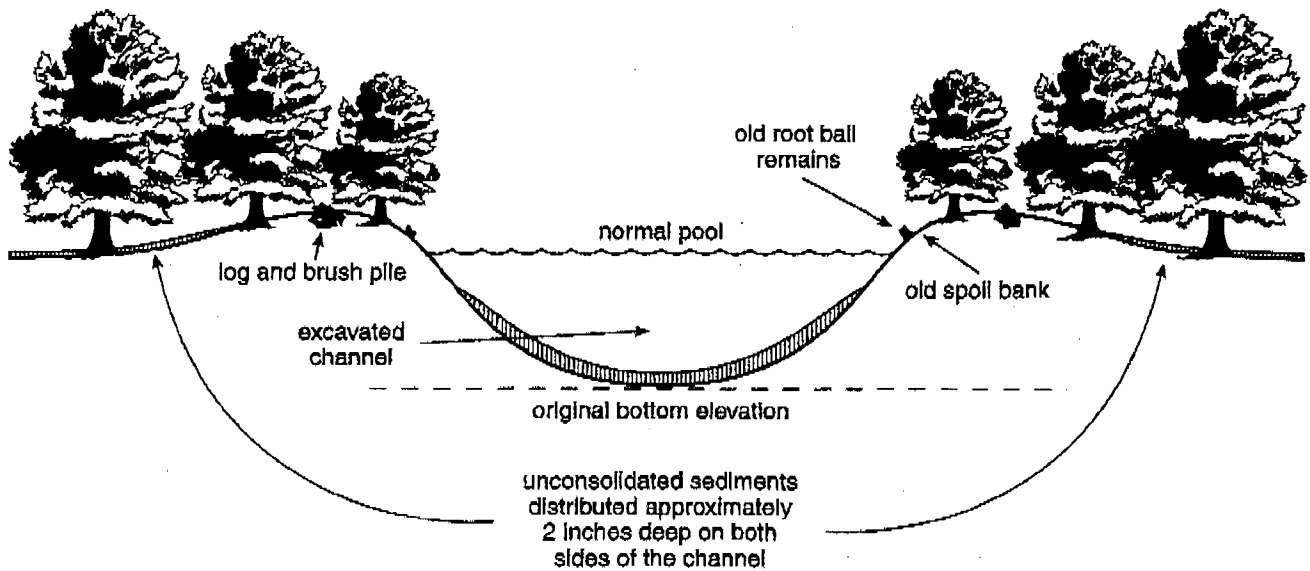
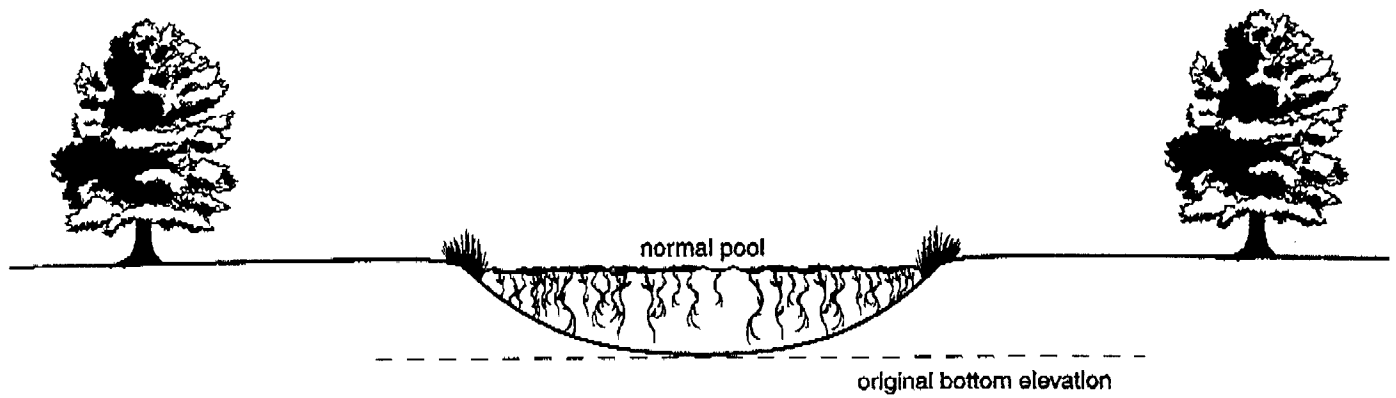


Figure 2. Typical Cross-section of Vegetation-only Removal by Jet-Spray

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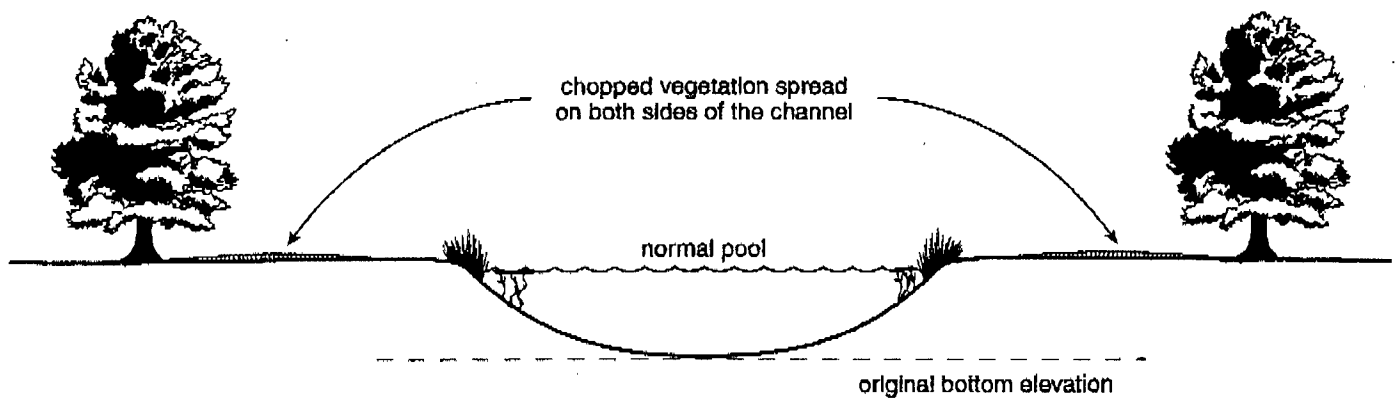
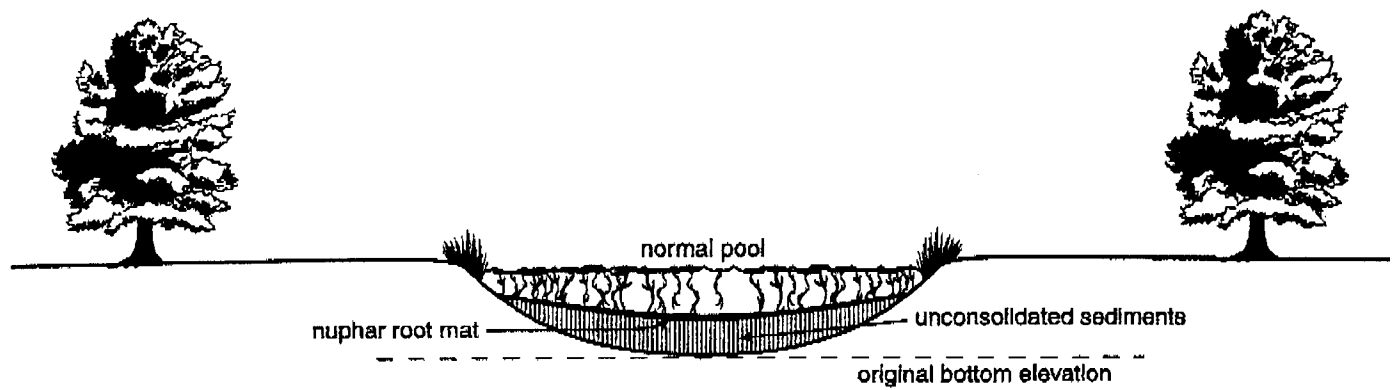


Figure 3. Typical Cross-section of Vegetation Removal and Sediment Redistribution by Jet-Spray

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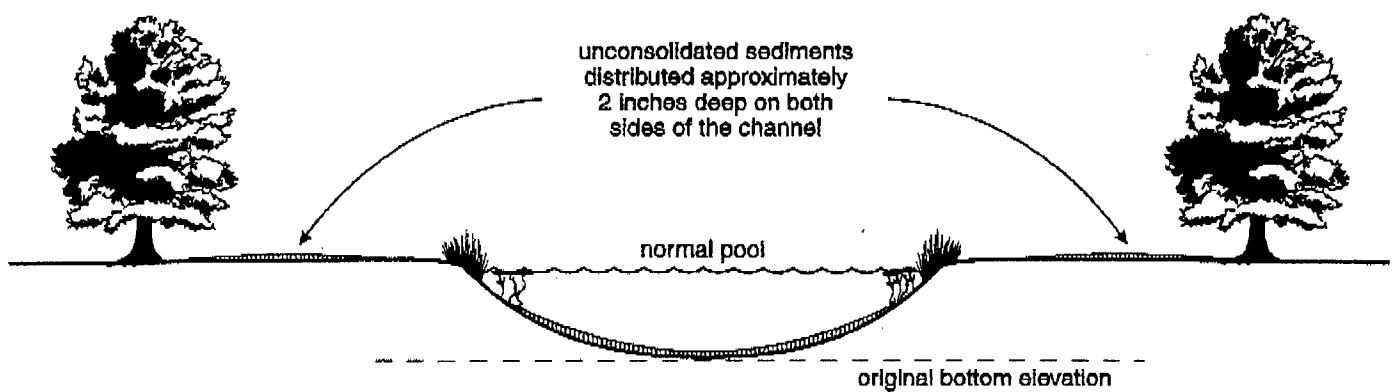
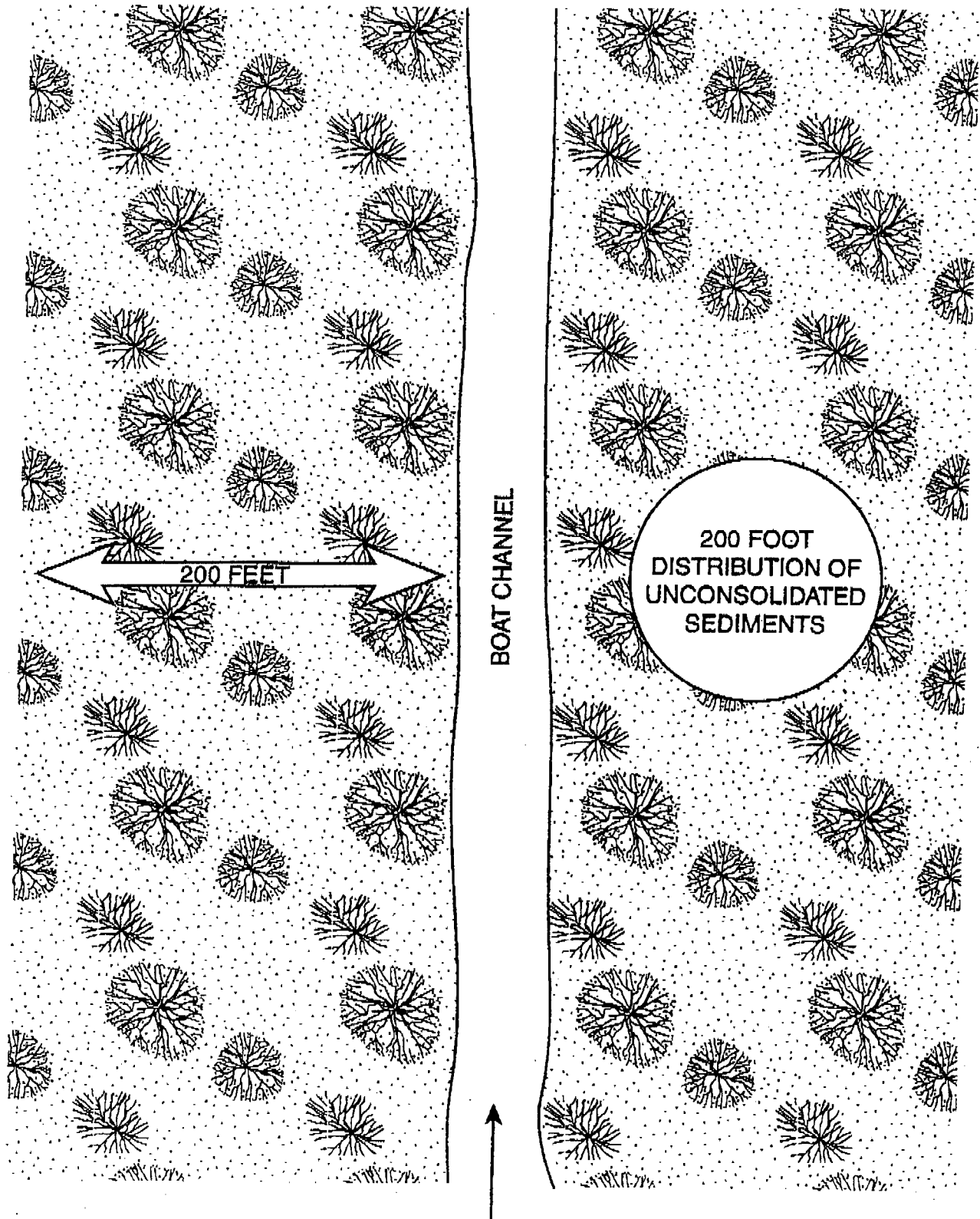


Figure 4. Typical Aerial View of Sediment Distribution by Jet-Spray



30. FOOT MAXIMUM CHANNEL WIDTH